

Received 12/6/84
In ADMIN 12/10
CK Bailey
Rms
#84018

CRUISE REPORT, ASTERIAS (?)

Vessel: R/V ASTERIAS
Cruise Number: ASTERIAS (?)
Parent Project: New England Nearshore
Funding Amount: \$20,000
Area of Operation: Central Maine inner shelf, Booth Bay and Muscongus Bay,
Maine
Cruise Dates: Oct. 1-14, 1984
Chief Scientist: R. N. Oldale, USGS
Other Scientific Party: Ken Parolski, Technician
Ron Circé, Geologist
Steve Colman, Geologist
Ship's Captain: Arthur D. Colburn, Jr.

Purpose of Cruise: Collect high resolution seismic reflection data to define the geology and shallow structure of the inner shelf off the central Maine coast. The data will contribute to understanding the glacial and post-glacial evolution of the coastal region and will provide basic data for management and planning decisions concerning the inner shelf including those related to waste disposal, pollution control, dredging, and sand and gravel resources.

Navigation: Positions were determined using LORAN-C time delays. Navigation data recorded on a Texas Instrument Silent 700 printer/recorder. Navigation data were also written on the seismic records.

Scientific equipment employed:

ORE Geopulse system; sled and boomer plate, power supply, and pre-amp/filter/amplifier
Innerspace 20 element streamer.
EPC-4603 graphic recorder.
Northstar-6500 LORAN-C system with Texas Instrument's Silent 700 recorder/printer.
Hewlett-Packard 8-track analogue recorder
IRIG-B time code clock.

Equipment performance:

All equipment performed smoothly and satisfactorily.

Cruise Summary: Technically, the cruise was successful. Bad weather delayed departure from Woods Hole five days. Geologically, the inner shelf off the central Maine coast consists mostly of bedrock outcrops and sediment ponds containing fine grained upper Wisconsinan glaciomarine deposits capped by Holocene marine deposits. At first glance, there is little information in the data on late-glacial ice-front positions or on the Holocene low sea-level stand. *400 km of Geopulse records collected*

Track chart: Not prepared at this time.

cc: W. Dillon T. Aldrich
 W. Green K. Parolski
 T. O'Brien R. Circé
 R. Bailey S. Colman